

Fig. 1

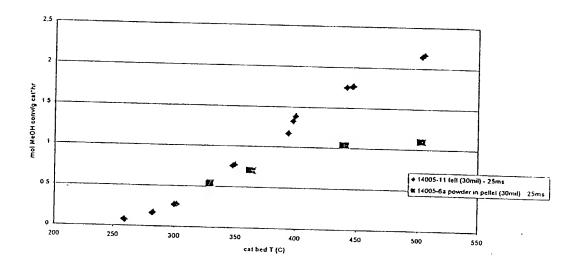


Fig. 2

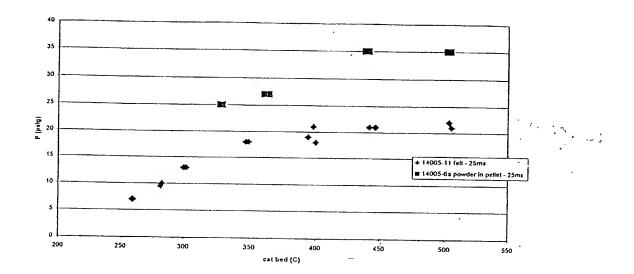


Fig. 3

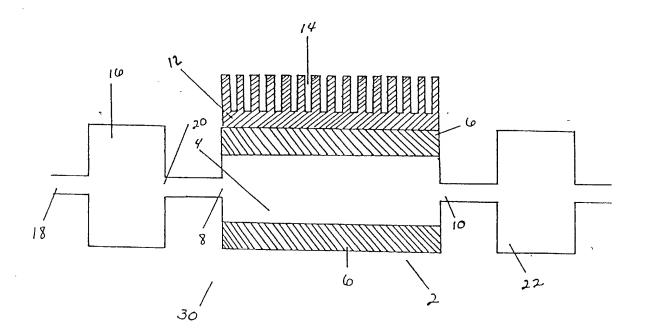


Fig. 4

Experimental Set-up

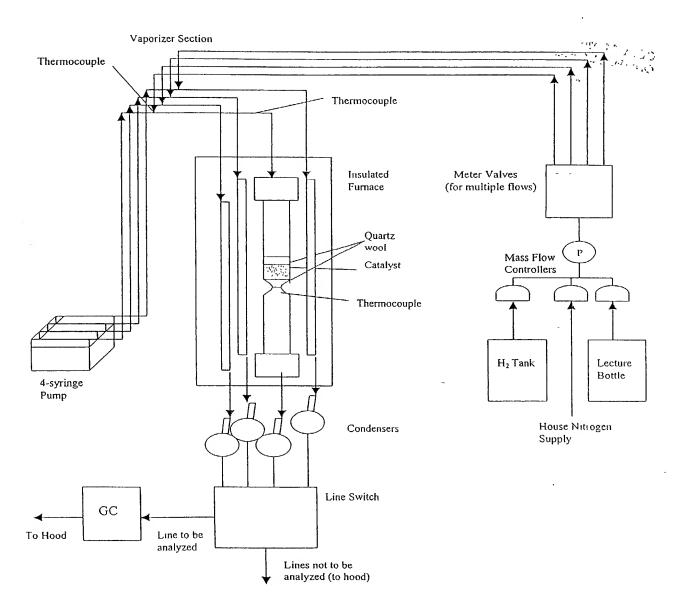
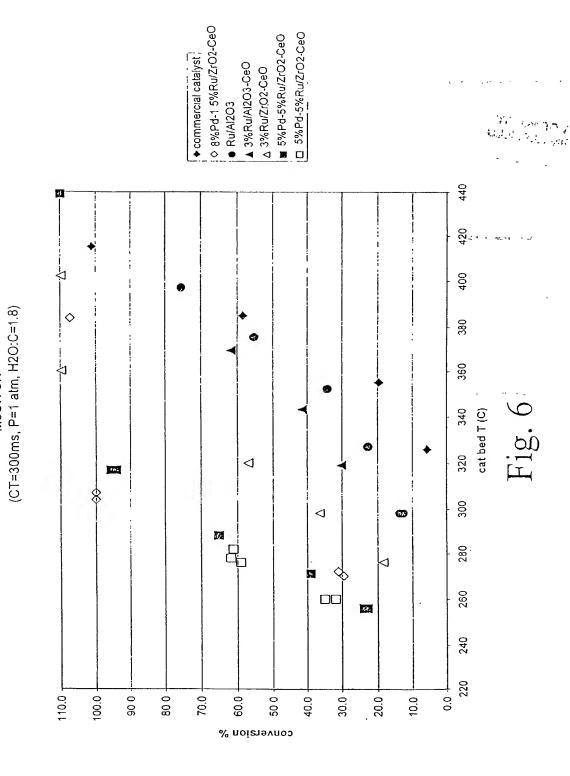


Fig. 5



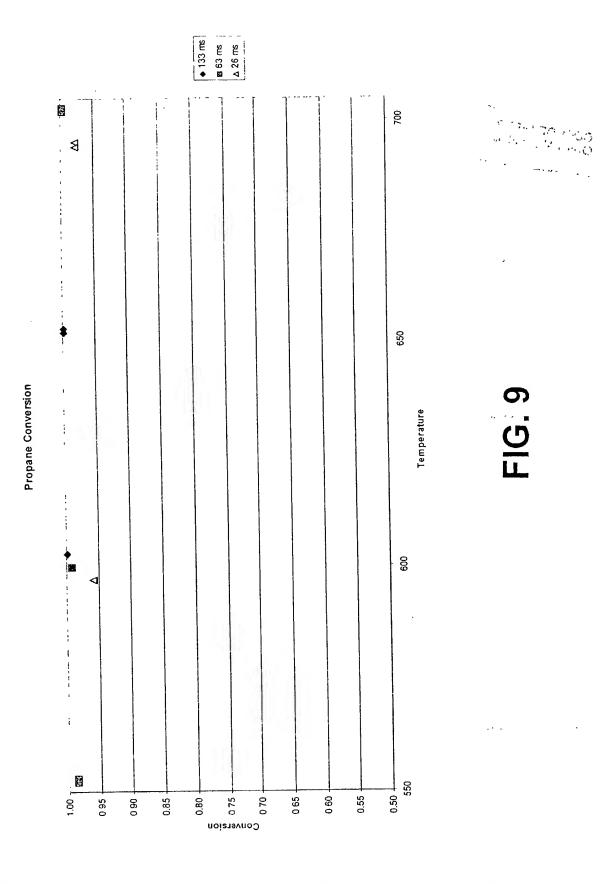
MeOH SR

☐ 5%Pd-5%Ru/ZrO2-CeO ◇ 8%Pd-1 5%Ru/ZrO2-CeO △ 3%Ru/ZrO2-CeO | ■ 5%Pd-5%Ru/ZrO2-CeO O 3%Ru/AI2O3-0.6%K ▲ 3%Ru/Al203-CeO ◆ commercial cat. Ru/Al2O3 ÷ 420 0 ◁ 400 380 **e** ∀ ○ (CT=300ms, P=1 atm, H20:C=1.8) 360 ◁ **∢** ○ 340 cat bed T 320 #! A: 0 300 280 260 240 100.001 → 220 10.00 90 00 80.00 0.00 70.00 00.09 50.00 40.00 30.00 20.00 HS sel

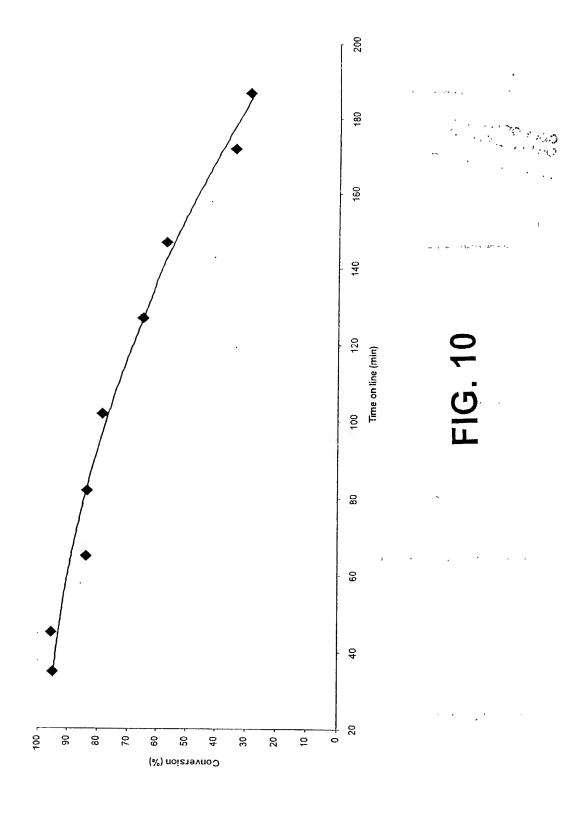
MeOH SR - H2

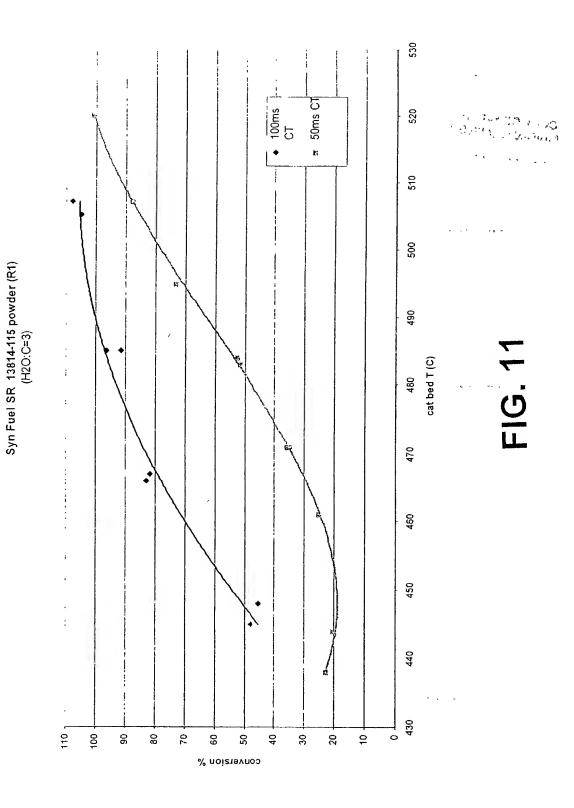
♦ 8%Pd-1 5%Ru/ZrO2-CeO ■ 5%Pd-5%Ru/ZrO2-CeO □ 5%Pd-5%Ru/ZrO2-CeO ▲ 3%Ru/AI2O3-CeO ∆ 3%Ru/ZrO2-CeO ◆ commercial cat O Ru/AI203-K ● Ru/AI203 0 **₽**-0-0 0 0 0 270 ♦ **♦** 0.00 100 001 70.00 80 00 10.00 90.00 60.00 50.00 40.00 30.00 20.00 CO sel

MeOH SR (CT=300ms, P= 1 atm, H20:C=1.8)



JP-8 SR (Cat Bed Temperature 650C; 3:1 Steam to Carbon; 25 msec CT





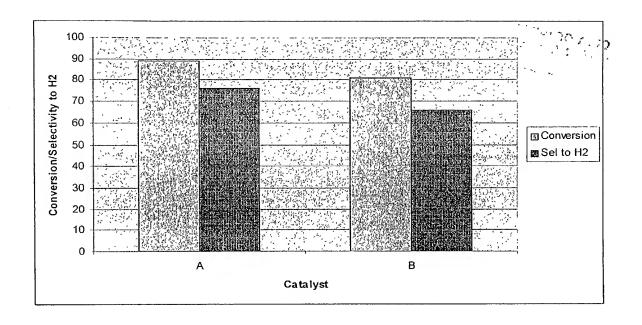


FIG. 12